CIVIL TECH LABS

Accredited by **NABL** as per ISO/ IEC 17025 : 2005

5, 1st Cross, Srinivasa Colony, Mission Road, Bangalore - 560027

Ph: 080 - 4114 2867 / Mob. : 96862 31801, Email: civiltechlabs@gmail.com

T-2654

To,

Assistant Executive Engineer
Yelahanka Sub Division,
BBMP Bangalore.

28th March 2015

Dear Sir,

Sub: Construction of L shape Drain at Kondappa layout main road balance portion in Ward No. 02, in Yelahanka sub division.
Testing of cubes – Reg.

As requested the 28th day Compressive Strength Test of Cubes was carried out for the above work for the samples supplied by you.

Please find the enclosed Test Report of the above.

Thanking you,

For Civil Tech Labs,

(KHUSHBOO L.)
Quality Manager

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TEST REPORT

COMPRESSIVE STRENGTH TEST ON CONCRETE CUBES

Name & Address of the Customer	AEE, Yelahanka Sub Division, BBMP
Name of Work	Construction of 'L' shape Drain at Kondappa layout main road balance portion in Ward No. 02, in Yelahanka sub division.
Name of Agency	Sri. Y. B. Ramesh
Grade of Concrete	M-20
No. of cubes tested	3
Dimension of Specimen	150mmx150mmx150mm
Cross Sectional Area	22500 mm²
Technical Reference	IS: 516-1959 (Reaffirmed 2013)

Sl. No.	Identification	Date of Casting	Date of Testing	Age at test (Days)	Weight (Kg)	Failure Load (KN)	Compressive Strength (N/mm²)	Avg Compressive Strength (N/mm²)
1	CC-Work	28/02/2015	28/03/2015	28	8.20	485	**21.56**	**21.19**
2					8.19	475	**21.11**	
3					8.17	470	**20.89**	

Note:

1. The results relate only to the items tested.
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3. Any correction invalidates this report.
4. The results are based on the test conducted on samples supplied by the customer.

Lab Incharge
Civil Tech Labs

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T-2654

To,

Assistant Executive Engineer
Yelahanka Sub Division,
BBMP Bangalore.

06th February 2015

Dear Sir,

Sub: Testing Materials.

As requested, tests on physical properties were carried out for the materials supplied by you, for the work of **'Construction of L shape Drain at Kondappa layout main road balance portion in Ward No. 02, in Yelahanka sub division.'**

Please find the enclosed Test Reports of the above.

Thanking You,
For Civil Tech Labs

Khushboo

(KHUSHBOO L.)
Quality Manager

CIVIL TECH LABS

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TEST REPORT

TEST ON CEMENT

Name & Address of the Customer	AEE, Yelahanka Sub Division, BBMP
Name of Work	Construction of 'L' shape Drain at Kondappa layout main road balance portion in Ward No. 02, in Yelahanka Sub division.
Name of the Agency	Sri. Y. B. Ramesh
Date of Testing	06/02/2015

Tests	Test Method As Per IS & Apparatus		Results		Requirements As Per IS 8112:1989	Remarks
	IS Code	Method	Value	Unit		
Initial Setting Time	IS-4031 (Part-5) 1988	VICAT	53	min	Not Less Than 30 Minutes	Satisfies Requirement
Final Setting Time	IS-4031 (Part-5) 1988	VICAT	485	min	Not More Than 600 Minutes	Satisfies Requirement
Soundness	IS-4031 (Part-3) 1988	LE-CHATELIER	3	mm	Not More Than 10 mm	Satisfies Requirement

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TEST REPORT

TEST ON FINE AGGREGATES Ref:IS:383/2386

Name & Address of the Customer	AEE, Yelahanka Sub Division, BBMP
Name of Work	Construction of L shape Drain at Kendappa layout main road balance portion in Ward No. 02, in Yelahanka sub division.
Name of the Agency	Sri. Y. B. Ramesh
Date of Testing	06/02/2015
Specific Gravity	2.55

Sample	IS Sieve designation (mm)	Sieve Analysis (% Passing IS Sieve)	Grading Requirement as per IS:383-1970				Grading Zone
			ZONE-I	ZONE-II	ZONE-III	ZONE-IV	
River Sand	10	100	100	100	100	100	II
	4.75	97.5	90-100	90-100	90-100	95-100	
	2.36	83.4	60-95	75-100	85-100	95-100	
	1.18	74.2	30-70	55-90	75-100	90-100	
	0.6	46.8	15-34	35-59	60-79	80-100	
	0.3	23.7	5-20	8-30	12-40	15-50	
	0.15	7.9	0-10	0-10	0-10	0-15	

Note:

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TEST REPORT

TEST ON COARSE AGGREGATES 40mm ↓ Graded Ref:IS:383/2386

Name & Address of the Customer	AEE, Yelahanka Sub Division, BBMP
Name of Work	Construction of L shape Drain at Kondappa layout main road balance portion in Ward No. 02, in Yelahanka sub division.
Name of the Agency	Sri. Y. B. Ramesh
Date of Testing	06/02/2015
Specific Gravity	2.68
Water Absorption in %	0.29

IS Sieve Designation (mm)	Sieve Analysis (% Passing IS Sieve)	Grading Requirement as per IS:383-1970 (Reaffirmed 2011)	Remarks
80	100	100	Satisfies the requirement
40	97.5	95-100	
20	54.3	30-70	
10	24.2	10-35	
4.75	3.7	0-5	

Note:

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TEST REPORT

TEST ON COARSE AGGREGATES 20mm ↓ Graded Ref:IS:383/2386

Name & Address of the Customer	AEE, Yelahanka Sub Division, BBMP
Name of Work	Construction of L shape Drain at Kondappa layout main road balance portion in Ward No. 02, in Yelahanka sub division.
Name of the Agency	Sri. Y. B. Ramesh
Date of Testing	06/02/2015
Specific Gravity	2.63
Water Absorption in %	0.32

IS Sieve Designation (mm)	Sieve Analysis (% Passing IS Sieve)	Grading Requirement as per IS:383-1970 (Reaffirmed 2011)	Remarks
40	100	100	Satisfies the requirement
20	97.4	95-100	
10	32.6	25-55	
4.75	7.5	0-10	

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TEST REPORT

TESTS ON REINFORCEMENT STEEL BARS 8mm

Name & Address of the Customer	AEE, Yelahanka Sub Division, BBMP
Name of Work	Construction of L shape Drain at Kondappa layout main road balance portion in Ward No. 02, in Yelahanka sub division.
Name of the Agency	Sri. Y. B. Ramesh
Date of Testing	06/02/2015

Sl.No.	Description	Result	IS 1786-2008 Min. Requirements	Remarks
1	Measured Diameter mm	8	8	Satisfactory
2	Wt/m Length (Kg/m)	0.397	0.395	Satisfactory
3	Bend & RebendTest	Pass	Should not Crack or Fracture	Satisfactory
4	Elongation (%)	14.9	14.5	Satisfactory
5	Yield Stress(N/mm²)	418	415	Satisfactory
6	U T S (N/mm²)	522	485	Satisfactory

Note:

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TEST REPORT

TEST ON REINFORCEMENT STEEL BARS 16 mm

Name & Address of the Customer	AEE, Yelahanka Sub Division, BBMP
Name of Work	Construction of L shape Drain at Kondappa layout main road balance portion in Ward No. 02, in Yelahanka sub division.
Name of the Agency	Sri. Y. B. Ramesh
Date of Testing	06/02/2015

Sl.No.	Description	Result	IS 1786-2008 Min. Requirements	Remarks
1	Measured Diameter mm	16	16	Satisfactory
2	Wt/m Length (Kg/m)	1.59	1.58	Satisfactory
3	Bend & RebendTest	Pass	Should not Crack or Fracture	Satisfactory
4	Elongation (%)	15.7	14.5	Satisfactory
5	Yield Stress(N/Sq.mm)	426	415	Satisfactory
6	U T S (N/Sq.mm)	532	485	Satisfactory

Note:

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TEST REPORT

TEST ON REINFORCEMENT STEEL BARS 12mm

Name & Address of the Customer	AEE, Yelahanka Sub Division, BBMP
Name of Work	Construction of L shape Drain at Kondappa layout main road balance portion in Ward No. 02, in Yelahanka sub division.
Name of the Agency	Sri. Y. B. Ramesh
Date of Test	06/02/2015

Sl.No.	Description	Result	IS 1786-2008 Min. Requirements	Remarks
1	Measured Diameter mm	12	12	Satisfactory
2	Wt/m Length (Kg/m)	0.889	0.888	Satisfactory
3	Bend & RebendTest	Pass	Should not Crack or Fracture	Satisfactory
4	Elongation (%)	15.5	14.5	Satisfactory
5	Yield Stress(N/Sq.mm)	422	415	Satisfactory
6	U T S (N/Sq.mm)	527	485	Satisfactory

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